

# Kills and Spills Team



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Kills and Spills Team  
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# **Dallas and Collin Counties Fish Kill statistics (last 5 years)**

- **69 events**
- **80,983 fish dead from all habitats (streams, rivers, lakes, ponds)**
  - **36 species**
  - **Top five: 38% threadfin shad, 15% gizzard shad, 12% unclassified sunfish, 5% mixed species, 5% longear sunfish**
- **29,144 fish dead in streams**
  - **28 species**
  - **Top five: 20% gizzard shad, 13% green sunfish, 11% unclassified sunfish, 11% mixed species, 7% green sunfish**
  - **Top five causes: 32% chlorine, 32% bacterial respiration, 21% animal respiration, 5% sewage, 3% other**

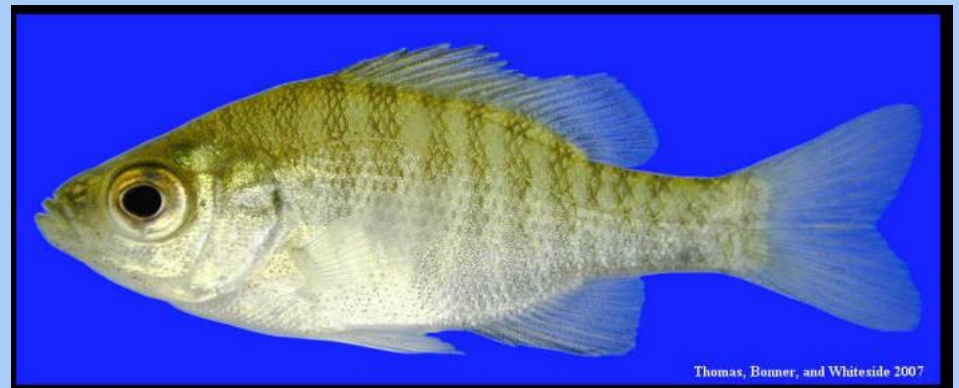
# Green Sunfish

- Dark spot at posterior, dorsal fin
- Cheeks streaked with blue-green
- Opercle black with light margin
- Ear stiff
- Long gill rakers
- Large mouth



# Bluegill

- Dark spot at base of dorsal fin
- Opercular flap mostly black, sometimes with an iridescent blue anterior edge
- Long gill rakers
- Ear flexible



# Longear sunfish

- White margin on ear
- Ear flexible
- Short gill rakers



# Redear Sunfish

- Margin of ear light or red
- Short gill rakers
- Ear stiff to margin
- Long pectoral fin





# Black Bullhead Catfish

- Black barbels (lower)
- Caudal fin square - slightly forked



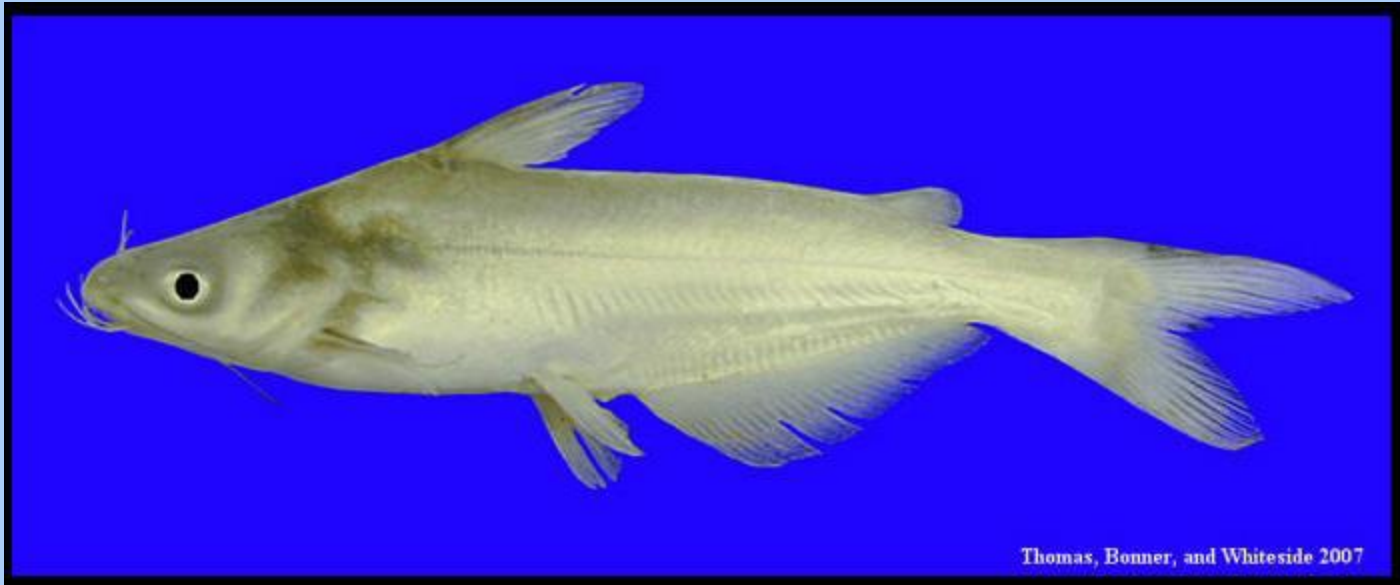
# Yellow Bullhead Catfish

- Yellow barbels (lower)
- Caudal fin rounded



# Blue Catfish

- Anal fin straight
- Caudal fin deeply forked



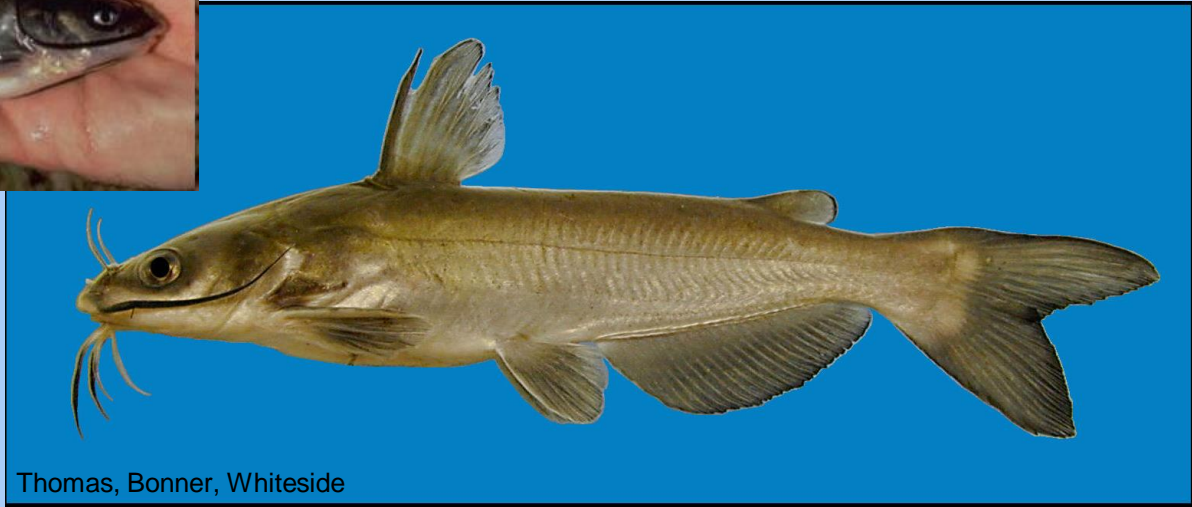


# Channel Catfish

- Anal fin rounded
- Caudal fin deeply forked
- Juveniles may have black spots



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Thomas, Bonner, Whiteside

# White Bass

- Dorsal fins separated
- Caudal fin forked
- Single rounded tooth patch on tongue
- One stripe to caudal fin



Thomas, Bonner, and Whiteside 2007

# Largemouth Bass

- Maxilla extends beyond eye



# Western mosquitofish

- Caudal fin truncate to slightly rounded







# Questions?